

## **ABSTRACT**

An optimizing apparatus for optimizing a mounter equipped with a line gang pickup head which picks up a plurality of components and mounts them on a board. The apparatus includes  
5 a nozzle set determination unit for determining a nozzle set which reduces a mounting time in view of a number of times interchanging pickup nozzles and a total task number necessary for mounting the plural components, a nozzle pattern determination unit for determining an optimal nozzle pattern as well as an  
10 arrangement of pickup nozzles (nozzle arrangement) at a nozzle station, based on the nozzle set determined by the nozzle set determination unit, and Z-axis arrangement/mounting order optimization unit for determining an array order of component feeders and a mounting order of components while maintaining the  
15 determined nozzle set and nozzle pattern.